

M 5.7, PUEBLA, MEXICO

 Origin Time: Fri 2009-05-22 19:24:18 UTC
 Location: 18.35°N 98.27°W Depth: 56 km

PAGER
Version 2

Created: 40 mins, 5 secs after earthquake

Estimated Population Exposed to Earthquake Shaking

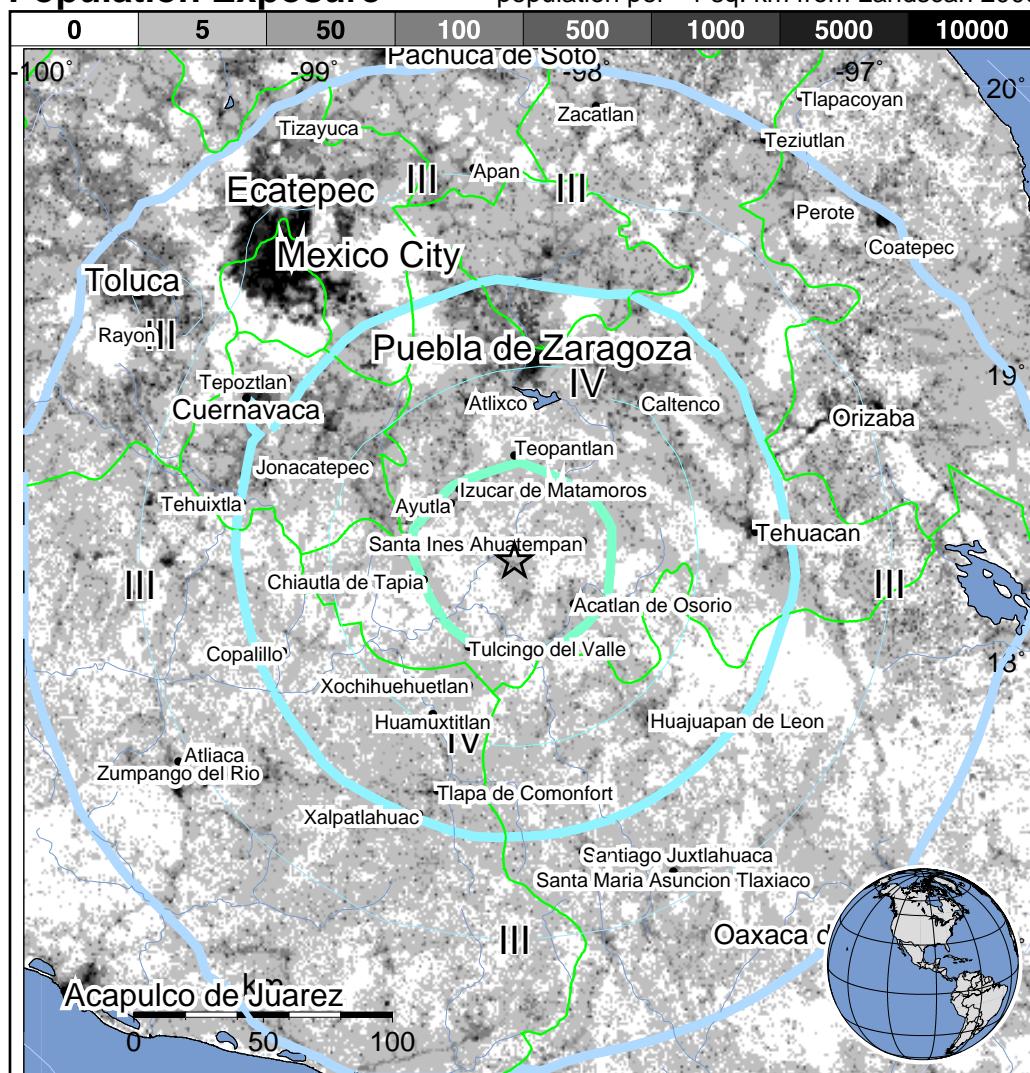
| ESTIMATED POPULATION EXPOSURE (k = x1000) | - - * | 31,872k* | 8,175k | 271k | 0 | 0 | 0 | 0 | 0 |
|---|-----------------------|----------|--------|----------|----------|-------------|----------------|----------------|----------|
| ESTIMATED MODIFIED MERCALLI INTENSITY | I | II-III | IV | V | VI | VII | VIII | IX | X+ |
| PERCEIVED SHAKING | Not felt | Weak | Light | Moderate | Strong | Very strong | Severe | Violent | Extreme |
| POTENTIAL DAMAGE | Resistant Structures | none | none | none | V. Light | Light | Moderate | Moderate/Heavy | Heavy |
| | Vulnerable Structures | none | none | none | Light | Moderate | Moderate/Heavy | Heavy | V. Heavy |

*Estimated exposure only includes population within the map area.

Population Exposure

population per ~1 sq. km from Landscan 2006

Selected City Exposure



| MMI City | Population |
|---------------------------|------------|
| V Santa Ines Ahuatempam | 4k |
| V Ayutla | 6k |
| V Acatlan de Osorio | 16k |
| V Raboso | 4k |
| V Teopantlan | 3k |
| V Izucar de Matamoros | 42k |
| IV Mexico City | 11,285k |
| IV Puebla de Zaragoza | 1,392k |
| III Ciudad Nezahualcoyotl | 1,232k |
| III Naucalpan de Juarez | 846k |
| III Ecatepec | 1,806k |

bold cities appear on map (k = x1000)

Shaking Intensity

MMI



Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. A magnitude 5.9 earthquake occurred near the Guerrero, Mexico, region 339 km west of the location of this earthquake on December 29, 1999 (UTC), with estimated population exposures of 29,000 at intensity V and 659,000 at intensity IV, with no reported fatalities. On August 28, 1973 (UTC), a magnitude 7.2 earthquake occurred in the Mexico region 175 km east of the location of this earthquake, with estimated population exposures of 847,000 at intensity VII and 2,289,000 at intensity VI, resulting in an estimated 600 fatalities. Recent earthquakes in this area have caused landslides that may have contributed to losses.

This information was automatically generated and has not been reviewed by a seismologist.

<http://earthquake.usgs.gov/pager>

Event ID: us2009gyba